



US005781704A

United States Patent [19][11] **Patent Number:** **5,781,704****Rossmo**[45] **Date of Patent:** **Jul. 14, 1998**

[54] **EXPERT SYSTEM METHOD OF
PERFORMING CRIME SITE ANALYSIS**

[75] Inventor: **Darcy Kim Rossmo**, Vancouver,
Canada

[73] Assignee: **Environmental Criminology Research,
Inc.**, Canada

[21] Appl. No.: **730,465**

[22] Filed: **Oct. 11, 1996**

[51] Int. Cl.⁶ **G06F 17/00**

[52] U.S. Cl. **395/75; 395/10; 705/1**

[58] Field of Search **395/10, 75; 705/1,
705/7**

Duncan, "Putting Crime on the map," Computer Talk, Nov.
18, 1991, p. 8.

Miller, "Computers trak the criminal's trail," American
Demographics, p. 13, Jan. 1994.

Primary Examiner—Allen R. MacDonald

Assistant Examiner—Jeffrey S. Smith

Attorney, Agent, or Firm—Hayes, Soloway, Hennessey,
Grossman & Hage, P.C.

[57] **ABSTRACT**

An expert system method is provided that performs crime
site analysis in a criminal activity area to determine a likely
center of criminal activity. The method uses distances from
related crime sites to determine a probability surface for the
entire criminal activity area. A target area having highest
values of probability becomes the center of criminal activity.
The expert system can be used to access other crime
databases such as witness reports to further define the
criminals; residence or workplace.

[56] **References Cited
PUBLICATIONS**

Betts, "Computer maps help cops catch crooks," Comput-
erworld, p. 32, Feb. 15, 1993.

Maurer, "Geographical coding helps to map out strategies,"
Crain's detroit business, Jan. 17, 1994, p. 13.

10 Claims, 6 Drawing Sheets

